

Waves, Words & Wonder: Building Science Literacy

Contact Information: Kristin Mullen, Grant Program Specialist
Virginia Aquarium & Marine Science Center
kmmullen@VirginiaAquarium.com
757-385-0331

Partner Agencies: Virginia Aquarium & Marine Science Center
City of Virginia Beach Ready to Learn Office
City of Virginia Beach Public Libraries

Funding Sources: Current funding: Verizon Foundation
Friends of the Virginia Beach Public Library
Pilot money: Institute of Museum & Library Services (IMLS)

Participating Pre-Ks: Childcare Network
Early Discoveries
Head Start
Judeo Christian Outreach Center
Naval Air Station Oceana
YMCA

Program Events: Teacher Orientation
Outreach to Schools – two by Aquarium educators & one by librarians
Family Night – two at Aquarium & one at each library
Teacher Training at Family Night event

Program Components Include:

- Hands-on activities based on *Virginia's Foundation Blocks for Early Learning: Comprehensive Standards for Four-Year-Olds*
 - Activities focus on science, math, reading and developmental skills
- Story time and puppet shows
- Live animal interactions
- Free book and snacks for the families upon turning in the program evaluation
- Free resource book and incentive (apron, t-shirt, tote bag) for teachers attending the teacher training
- Take-home activity ideas for the parents
- Classroom activity ideas for the teachers
- Library card registration

Nature Story Books for Pre-Kindergarten

- *Big Al* - Andrew Clements Yoshi
- *Fish is Fish* - Leo Lionni
- *The Nutty Nut Chase* - Kathryn White
- *Turtle Splash* - Cathryn Falwell
- *Turtle's Penguin Day* - Valeri Gorbachev
- *A Frog in the Bog* - Karma Wilson
- *What Did They See* - John Schindel
- *Crab Moon* - Ruth Horowitz
- *Don't Laugh Joe* - Keiko Kasza
- *Octavia and Her Purple Ink Cloud* - Donna and Doreen Rathmell
- *Meet Chadwick and his Chesapeake Bay Friends* - Priscilla Cummings
- *Ottie and the Star* - Laura Jean Allen
- *Bob and Otto* - Robert O. Bruel
- *I Need a Snake* - Lynne Jonell
- *Look Out for the Big Bad Fish* - Sheridan Cain
- *Mister Sea Horse* - Eric Carle
- *A House for Hermit Crab* - Eric Carle
- *The Salamander Room* - Anne Mazer
- *Possum's Harvest Moon* - Anne Hunter
- *Possum and the Peeper* - Anne Hunter
- *Tudley Didn't Know* - John Himmelman
- *Little Beaver and the Echo* - Amy MacDonald
- *The Wide Mouthed Frog* - Rex Schneider
- *Bear Snores On* - Karma Wilson

Reference Books for Educators

- *Science is Simple: Over 250 Activities for Preschoolers* – Peggy Ashbrook
- *Science Play: Beginning Discoveries for 2- to 6-year-olds* – Jill Frankel Hauser
- *Creepy Crawlies and the Scientific Method: More Than 100 Hands-On Science Experiments for Children* – Sally Kneidel
- *Worms, Shadows, and Whirlpools: Science in the Early Childhood Classroom* – Karen Worth & Sharon Grollman
- *ScienceArts: Discovering Science Through Art Experiences* – MaryAnn F. Kohl & Jean Potter
- *Sea Life Art & Activities: Creative Learning Experiences for 3 to 7-year-olds* - Judy Press
- *The Kids' Science Book: Creative Experiences for Hands-on Fun* – Robert Hirschfeld & Nancy White
- *The Kids' Nature Book: 365 Indoor/Outdoor Activities & Experiences* – Susan Milord
- *The Kids' Wildlife Book: Exploring Animal Worlds through Indoor/Outdoor Experiences* – Warner Shedd

Websites

www.greenhour.org

www.vbparents.com

www.childrenandnature.org

<http://richardlouv.com/children-nature-resources>

<http://www.naeyc.org/> (National Association for the Education of Young People)